

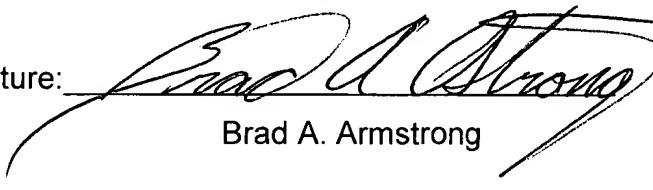
CERTIFICATE OF EXPRESS MAILING

Commissioner for Patents  
PO BOX 1450  
Alexandria VA 22313-1450

Sir:

I hereby certify that the complete attached response / document is being deposited with the United States Postal Service as EXPRESS mail article number ER715475086US Post Office to Addressee, with sufficient postage prepaid in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450

on this date: Nov. 1, 2004

Signature: 

Brad A. Armstrong

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TECHNOLOGY CENTER R3700

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patent  
PO BOX 1450  
Alexandria VA 22313-1450

Re: Patent Application of Brad A. Armstrong

Serial No.: 09/896,680

Filed: 06/29/2001

Applicant's file no. F29

Correspondence mailing address: Brad A. Armstrong  
P.O. Box 2048  
Carson City, NV 89702

Title: CONTROLLER WITH ANALOG PRESSURE SENSOR(S)

Examiner: Nguyen, Kim

GAU: 3713

Examiner Nguyen:

This Information Disclosure Statement (IDS) is being filed with an RCE along with the large entity fee payment for the RCE and therefore no fee

payment is required for the information of the IDS to be considered by the PTO.

Many of the listed references on the attached IDS sheets were considered by Examiner Paradiso prior to his issuance of the "Notice of Allowance", however many of the listed references were NOT considered by Examiner Paradiso prior to his issuance of the "Notice of Allowance". Applicant would expect the current Examiner would like to consider all of the prior art and references for herself if the issue of allowability is going to be reconsidered, and then initial each considered reference. However, if the current Examiner wishes Applicant to identify or remove those references already considered by Examiner Paradiso, so that only the newly submitted references are set-forth, please inform Applicant and such will be promptly complied with for the convenience of the Examiner. Thank you.

The following sections below address disclosures of prior art and also relevant art that may pertain to the claims of this application.

1. As part of this Information Disclosure Statement are listings on modified 1449 forms of: A) US Patent References, B) Foreign Patent References, C) Non Patent Disclosures and Other References, and D) US Patent Application Publications.

Best full or partial copies Applicant currently possesses of each of the Foreign Patent References and Non Patent Disclosures and Other References are included herewith. Applicant understands that the PTO now supplies its own copies of the US Patents and US Patent Applications cited in new patent applications. If this is not correct and Applicant is required to acquire paper copies from the PTO, please inform Applicant as soon as possible so that the copies can be ordered from the PTO and sent back to the Examiner. Thank you.

If Applicant accidentally failed to supply a copy of any reference and the Examiner does not retrieve a copy from a source at the PTO, please inform Applicant so that Applicant can promptly send a copy to the Examiner. Thank you.

The Foreign Patent References are in some cases foreign patents and in other cases patent applications.

Each of the four above described lists includes references to Footnotes of Special Interest. The "Footnotes-References of Special Interest" are included to provide assistance to the Examiner while determining allowability of the claims. The Footnotes mainly pertain to Office Actions. So that the Examiner may be fully informed of all objections made in the past by any Patent Examiner against any of Applicant's claims, Applicant herein includes a copy of each Office Action regarding Applicant's other Patent Applications wherein an Examiner relied upon the "special interest" identified reference art as indicating lack of novelty or indicating obviousness either alone or in combination for the then claimed invention. Many of these objections were later found by the Examiner of record to be overcome resulting in issuance of a U.S. Patent, but only the objections are listed here for the sake of brevity and so that the current Examiner can be fully informed of all arguments made in the past by other PTO Examiners against Applicant's claims. The current Examiner is requested to contact Applicant if Applicant can answer any questions regarding any of these Office Actions or the inventions to which they pertain.

2. Applicant has also provided the below comments and included photographs regarding products once on the market. One such product is the CyberMan™ controller first sold in 1993 in the USA by Logitech Inc. 6505 Kaiser Dr., Fremont CA USA. Applicant believes he is the inventor of the CyberMan controller which was made without his permission after failed licensing negotiations regarding Applicant's US Patent Application No. 07/847,619 now

Patent 5,589,828. Applicant believes an element disclosed in the CyberMan that was not taught in the '828 Patent is the membrane element. Membrane elements are taught in Applicant's US Patent Application No. 08/677,378 filed July 5, 1996. It appears to Applicant that the "one year bar" rule applies to the membrane connection of sensors as disclosed in CyberMan. Nevertheless the '378 Patent Application teaches a great variety of novel and unobvious utilizations of a membrane in unique combination with many important elements. Additionally the '378 application teaches many elements in inventive combination, numerous structural variations and inventive leaps; both with and without the cost saving advantages taught in the '378 application of the membrane connecting to the circuit board without the expensive wiring harness of CyberMan. Many embodiments of the '378 application do not require use of a membrane to be novel and inventive. And many embodiments of the '378 application having a membrane are novel and inventive over the CyberMan disclosure.

Located at the top of the stack of Reference Art copies is a CyberMan disclosure containing 1) an advertisement flyer with the heading CyberMan 3D Controller and 2) photographs 1, 2 and 3 of the CyberMan Controller assembled and also disassembled. Photograph 1 shows the CyberMan in a top perspective view and showing a base, a handle and three buttons. Photograph 2 shows a portion of the CyberMan in a disassembled state and showing the handle, three buttons, a microswitch for one of the buttons, a wiring harness spanning between a membrane located in the handle and a circuit board located in the base. The three buttons each use normally-open momentary-On switches. No proportional pressure-sensors are used. Movement of the major plate is tracked by two bi-directional slide potentiometers (variable resistors), all other sensors are uni-directional sensors of a momentary-On On/Off only type. The major plate is moveable in two-axes. Photograph 3 shows a portion of the CyberMan in a disassembled state. Shown in photograph 3 is the handle in an upside-down position and having a motor with offset weight for providing active tactile

feedback. Four metal dome On/Off switches on a 1<sup>st</sup> plane (two axes input), and two more On/Off switches located on a third and fourth planes (third axis) are all integrated with the flexible membrane. The membrane further has solder connections to two metal dome On/Off switches (fourth axis) and solder connections to the three On/Off microswitches associated with the finger deppressible buttons.

The membrane is located in the handle and the circuit board is located in the base. The expensive conventional wiring harness spans between the membrane in the handle and the circuit board in the base. The membrane does not physically engage, contact or connect to the circuit board. The membrane does not touch the circuit board and does not lay adjacent to the circuit board. The membrane is not adhered to the circuit board, directly connected to the circuit board, or otherwise in close proximity to the circuit board. All metal domes and physical switch packages are located on only one side of the membrane.

Regarding the circuit board, two sensors are located on only one side of the circuit board (the two bi-directional sliding potentiometers or variable resistors) the second side of the circuit board has no sensors located on it.

The Examiner is respectfully requested to examine the claims in light of the CyberMan disclosure which the Applicant has described herein and included photographs for the Examiner's consideration. If the Examiner needs any additional information regarding CyberMan please contact Applicant or Logitech at the above listed address, or Applicant would be glad to supply a working example of the CyberMan (with screwdriver included:-) for the Examiner.

3. Another product on or once on the market is a video game controller manufactured by Namco Ltd. The Namco controller is believed to have been the controller that was referred to as the "NEO GEO" controller in Application No. 08/942,450 now Patent 6,102,802, in paper no. 3, a Preliminary Amendment dated July 7, 1999 by the PTO and cited by Applicant at that time for an example of a two hand held controller with an analog button in the right hand area. The

Namco controller has POSITIONAL button sensors which were critically differentiated from Applicant's PRESSURE button sensors resulting in the now issued U.S. Patent 6,102,802. Of interest to the present claims the Namco controller is an image controller utilizing four rotary potentiometers. The printed material associated with the Namco controller has a copyright date of 1994 which Applicant assumes is the first time of sale to the public. Three photographs are included of the Namco controller.

Photograph 1 is of the top of the controller. In the left hand area is positioned a four-way cross key or rocker for operation by the user's left hand thumb. The rocker actuates four normally-open momentary-On On/Off only switches. Two shoulder buttons are positioned for operation one each for the user's right and left hand index fingers. Four individual buttons are embodied in the right hand area for operation by the right hand thumb. Two of the four buttons are normally-open momentary-On On/Off only switches. The other two of the buttons on the right hand area of the Namco controller are buttons structured to drive gears to rotate potentiometers. These gear-drive buttons are depressible only in a linear fashion, the buttons themselves do not pivot or rotate.

Photograph 2 is a picture of the Namco controller in an upside-down position with a housing bottom panel removed on the right hand side of the controller in order to show internal components associated with the two gear-drive buttons. The buttons rest on metal coil compression springs and the human user can depress the buttons with his right thumb. The metal coil springs return the buttons to a normally extended or raised position. The buttons are connected to rack and pinion gears to translate the linear travel of the buttons into rotation of a pinion gear, and the pinion gear is connected to the rotary shaft of an electrical rotary potentiometer.

Photograph 3 is a picture of the Namco controller in an upside-down position with both housing bottom panels removed to show the internal components of the controller. Four rotary potentiometers are utilized. The first and second rotary potentiometers are as described in Photograph 2 above. The third rotary potentiometer is utilized with a similar rack and pinion type gearing

with an individual button, this button being the shoulder button depressible by the user's left hand index finger. The fourth rotary potentiometer has planetary type gearing for sensing the articulation between the right and left hand areas of the Namco case. Of interest the three rotary potentiometers associated with depressible buttons are not embodied to act as bi-directional sensors as defined in the current specification. In contrast the fourth rotary potentiometer is embodied in the Namco controller as a bi-directional sensor, for example, the two case halves of the Namco controller can be rotated in two separate directions for the normally resting position. The Namco controller also has three circuit boards.

The Namco controller does not have a flexible membrane connecting to any circuit board. The Namco controller does not have a flexible membrane bearing circuitry. The Namco controller does not have any structure for active tactile feedback. The Namco controller does not have a motor and offset weight. The Namco controller does not have any pressure sensors. The Namco controller does not have pressure sensors associated with individual buttons. The Namco controller does not have any pivotal or rotary buttons. The Namco controller does not have any single element structured to activate more than one rotary potentiometer.

4. Relevant to any passive tactile feedback with variable output sensor feature is U.S. Patent 4,786,764 issued to Padula, et al on Nov. 22, 1988 for the invention entitled DIGITIZER STYLUS WITH PRESSURE TRANSDUCER. The Padula patent describes an elongated stylus held in one hand similar to a pen or pencil for writing on an electronic digitizer tablet. One primary problem sought to be solved by Padula is the elimination of spurious data inputs during signature verification from less than adequate pressing force by the human hand of the stylus tip against the digitizer tablet. To solve that problem Padula describes use of a pressure switch which includes a transducer in the form on an ink layer having electrical resistance which varies as a function of pressure. The transducer material is in contact with circuitry on a flexible material sheet. The pressure switch is located in the stylus wherein the force against the stylus tip is

applied to the transducer. The variable output (analog output) of the pressure switch is read by processing electronics. The analog output changes with increasing force against the stylus, and when a threshold level change is detected data flow from the stylus is allowed. A collapsible dome of metal in the stylus is arranged to collapse with snap action and provide tactile feedback to the user when the predetermined force is obtained. When pressure is removed from the stylus tip, the dome snaps back to its original undeformed state, ready for the next operation. Thus while in one embodiment the pressure switch is described or used as an On and Off switch with the stylus actuated with sufficient force and deactivated with less force against the tip, Padula et al also detail that this analog signal can be used advantageously in mechanical or electrical drawing, where varying force indicates the use of or need for lines of varying thickness, for example, when digitizing a blueprint or circuit, in addition to the use already noted in connection with signature verification. In another embodiment of the invention, the part which is displaceable against the transducer when the pressure is applied to the stylus tip is resilient and rounded, whereby the area of the part pressed against the transducer increases as the pressure increases. The change in resistance in this case is a function of both the pressure and the change in the surface area of contact between the displaceable part and the transducer. The Examiner is requested to read Padula for the relevant details.

Thank you.

US Patent 5,164,697 to Kramer describing an “INPUT KEYBOARD FOR AN ELECTRONIC APPLIANCE IN ENTERTAINMENT ELECTRONICS” (the title) includes the word “snap” twice in the disclosure. Once in column 1 lines 10-35 and again in column 5, lines 35-51. In Applicant’s opinion, the snap or snap effect in the Kramer U.S. Patent 5,164,697 in each of the two occurrences refers only to the rapid or quick movement of the contacts relative to each other, and has nothing to do with tactile feedback to the user. A third party, during licensing negotiations with Applicant, asserted the snap in Kramer was a description of

tactile feedback, however, Applicant disagrees. The Examiner is requested to read Kramer for himself regarding the details of Kramer. Thank you.

5. Please consider the issue of double-patenting regarding this application and all of Applicant's other pending U.S. applications which can be readily located by a search of the PTO records for pending applications under the Inventor name of "Brad A. Armstrong". If the Examiner wishes and requests such, Applicant would be more than willing to submit copies of all of his currently pending claims. Applicant would be happy to discuss each claim with the Examiner. If the Examiner believes that would be helpful, please do not hesitate in requesting such from Applicant. Thank you.

6. Also, please consider the issue of double-patenting regarding this application and all of Applicant's Issued U.S. Patents which can be readily located by a search of the PTO records for issued patent under the Inventor name of "Brad A. Armstrong". If the Examiner wishes additional information, please do not hesitate in requesting such from Applicant. Thank you.

Applicant realizes this IDS is extensive and sincerely apologizes to the Examiner. The legal system regarding prior art disclosure, as presently determined by the courts, is a harsh master – expensive, time consuming and difficult – for an inventor who only wants to enjoy the fruit of his invention. Please examine the claims thoroughly so that Applicant may receive a valid and worthy Patent. Thank you for your time.

Please do not hesitate in requesting anything which might be of assistance from Applicant.

Respectfully,



Brad A. Armstrong

Date: Nov. 1, 2004

Form 1449 Modified		Application Number	09/896,680	
		Filing Date	June 29, 2001	
		First Named Inventor	Brad A. Armstrong	
		Art Unit	3713	
		Examiner Name	Nguyen, Kim	
		Applicant's File Number	F29	

Examiner Initials	Foreign Patent Document No.	Publication Date	Inventor or Applicant Name	Relevant Information
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		mm-dd-yyyy		
	DE3543890	06-19-1987	THOMSON BRANDT	Footnote 82 -- Special Interest
	EP0470615	02-12-1992	NINTENDO CO	Footnote 81 -- Special Interest
	AU645462	01-13-1994	NINTENDO CO	Cited for Related Interest
	AU8142991	02-13-1992	NINTENDO CO	Cited for Related Interest
	CA2048167	02-10-1992	NINTENDO CO	Cited for Related Interest
	CN1058728	02-19-1992	NINTENDO CO	Cited for Related Interest
	DE69114400	12-14-1995	NINTENDO CO	Cited for Related Interest
	ES2079529	01-16-1996	NINTENDO CO	Cited for Related Interest
	GB2247107	02-19-1992	NINTENDO CO	Cited for Related Interest
	HK30195	03-17-1995	NINTENDO CO	Cited for Related Interest
	KR9705724	06-11-1997	BURR BROWN CORP	Cited for Related Interest
	MX9100564	04-01-1992	NINTENDO CO	Cited for Related Interest
	SG8095	06-16-1995		Cited for Related Interest
	DE3543890	06-19-1987	THOMSON BRANDT	Footnote 82 -- Special Interest
	EP0205726	12-30-1986	HAL LAB INC / Nakamura	Footnote 4 -- Special Interest
	SU739505	12-28-1977	BARANOV ETAL	Cited for Related Interest
	GB2205941	12-21-1988	IBM CORP	Cited for Related Interest
	GB2240614	08-07-1991	DZHOLDASBEKOV ETAL	Footnote 6 -- Special Interest
	GB2113920	08-10-1983	ALPS / Murata et al	Footnote 59 -- Special Interest
	DE19519941	03-13-1997	WERGEN	Cited for Related Interest
	EP0438919	07-31-1991	KAYE, ARTHUR	Cited for Related Interest
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	JP7302159	11-14-1995	SEGA / Terajima	Footnote 61 -- Special Interest
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	GB2058462	04-08-1981	SHINESU POLYMER	Cited for Related Interest
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	JP3108701	05-08-1991	CANON INC	Cited for Related Interest
	JP04155707	05-28-1992	YOKOHAMA RUBBER	Cited for Related Interest
	JP4155707	05-28-1992	YOKOHAMA RUBBER	Cited for Related Interest
	JP5151828	06-18-1993	YOKOHAMA RUBBER	Cited for Related Interest

Examiner Signature	Date Considered
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Examiner Initials	Foreign Patent Document No.	Publication Date	Inventor or Applicant Name	Relevent Information
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	JP09213168	08-15-1997	KOIZUMI ETAL	Cited for Related Interest
	JP9218737	08-19-1997	NAMCO	Cited for Related Interest
	JP9223607	08-26-1997	KOIZUMI ETAL	Cited for Related Interest
	JP11031606	02-02-1999	KOIZUMI ETAL	Cited for Related Interest
	RU2010369	03-30-1994	SMYSLOV	Cited for Related Interest
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	WO9957630	11-11-1999	SCIENTIFIC ATLANTA	Cited for Related Interest
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	GB2155953	10-02-1985	PERMELEC ELEC.	Cited for Related Interest
	WO9718508	05-22-1997	SYNAPTICS INC	Footnote 91 -- Special Interest
	DE4013227	05-29-1991	POULSOM ETAL	Footnote 97 -- Special Interest
	CA2038894	05-24-1994	PARK	Cited for Related Interest
	WO9428387	08-08-1995	BROWN ETAL	Cited for Related Interest
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	WO9318475	12-31-1996	ARMSTRONG	Cited for Related Interest
	EP0451676	10-16-1991	Nokia Unterhaltungselektr	Footnote 85 -- Special Interest
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Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Initials	Foreign Patent Document No.	Publication Date	Inventor or Applicant Name	Relevent Information	
		mm-dd-yyyy			
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	JP4077335	12-08-1992	NKK CORP	Cited for Related Interest	
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	DE19803627	08-05-1999	BALTUS RENE	Cited for Related Interest	
	JP9223607	08-26-1997	KOIZUMI ETAL	Cited for Related Interest	
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	GB2159953	12-11-1985	STC PLC	Cited for Related Interest	
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	JP 63-029113	08-16-1989	YAMAHA CORP.	Cited for Related Interest	
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	TW369431	09-11-1999	SONY COMPUTER ENT.	Cited for related Interest	
	JP10-258181	09-29-1999	ALPS ELECTRONIC CO.	Cited for related Interest	
	JP-B-H1-40545			Footnote 113 -- Special Interest	
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	JP6511340T	12-15-1994	COPPER ETAL	Cited for related Interest	
	EP0606388	07-20-1994	COPPER ETAL	Cited for related Interest	
	CA120502	04-15-1993	COPPER ETAL	Cited for related Interest	
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	EP0574213	12-15-1993	MILLER ETAL	Cited for related Interest	
	DE69324067T	07-15-1999	MILLER ET AL	Cited for related Interest	
	DE69324067D	04-29-1999	MILLER ET AL	Cited for related Interest	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Initials	Foreign Patent Document No.	Publication Date	Inventor or Applicant Name	Relevent Information	
		mm-dd-yyyy			
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	JP10505183T	05-19-1998	ALLEN ET AL	Cited for related Interest	
	EP0777888	06-11-1997	ALLEN ET AL	Cited for related Interest	
	AU3544495	03-27-1996	ALLEN ET AL	Cited for related Interest	
	WO9607966	03-14-1996	ALLEN ET AL	Cited for related Interest	
	KR264640	10-02-2000	ALLEN ET AL	Cited for related Interest	
	JP10505182T	05-19-1998	ALLEN ET AL	Cited for related Interest	
	EP0777875	06-11-1997	ALLEN ET AL	Cited for related Interest	
	DE69521617D	08-09-2001	ALLEN ET AL	Cited for related Interest	
	CN1166214	11-26-1997	ALLEN ET AL	Cited for related Interest	
	AU3544395	03-27-1996	ALLEN ET AL	Cited for related Interest	
	WO9718508	05-22-1997	ALLEN ET AL	Cited for related Interest	
	JP11511580T	10-05-1999	ALLEN ET AL	Cited for related Interest	
	EP0861462	09-02-1998	ALLEN ET AL	Cited for related Interest	
	CN1202254	12-16-1998	ALLEN ET AL	Cited for related Interest	
	JP012040098	08-16-1989	YAMAHA CORP	Cited for related Interest	

Examiner Signature		Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449A Modified			Application Number	09/896,680		
			Filing Date	June 29, 2001		
			First Named Inventor	Brad A. Armstrong		
			Art Unit	3713		
			Examiner Name	Nguyen, Kim		
			Applicant's File Number	F29		
Examiner Initials	US Patent Number	Publication Date	Patentee or Applicant Name	Relevent Information	US Class	
2430284	11/4/1947	EVERS	Cited for Related Interest	341/187		
3296882	1/10/1967	DURAND	Cited for Related Interest	74/471		
3611068	10/5/1971	FUJITA	Footnote 23 -- Special Interest	338/2		
3693425	9/26/1972	STARITA ETAL	Cited for Related Interest	73/862.044		
3710050	1/9/1973	RICHARDS	Cited for Related Interest	200/61.43		
3771037	11/6/1973	BAILEY	Cited for Related Interest	318/580		
3806471	4/23/1974	MITCHELL	Footnote 80 -- Special Interest	252/519		
3921445	11/25/1975	HILL ETAL	Cited for Related Interest	73/862		
3952173	4/20/1976	TSUJI ETAL	Cited for Related Interest	200/511		
3988556	10/26/1976	HYODO	Cited for Related Interest	200/511		
3993884	11/23/1976	KONDUR ETAL	Footnote 75 -- Special Interest	200/295		
4099409	7/11/1978	EDMOND	Cited for Related Interest	73/862		
4133012	1/2/1979	TAKAMIYA ETAL	Footnote 77 -- Special Interest	360/90		
4158759	6/19/1979	MASON	Footnote 41 -- Special Interest	219/720		
4164634	8/14/1979	GILANO	Cited for Related Interest	200/5A		
4216467	8/5/1980	COLSTON	Cited for Related Interest	341/20		
4224602	9/23/1980	ANDERSON ETAL	Cited for Related Interest	340/321		
4246452	1/20/1981	CHANDLER	Footnote 62 -- Special Interest	200/5A		
4268815	5/19/1981	EVENTOFF	Cited for Related Interest	338/69		
4276538	6/30/1981	EVENTOFF	Cited for Related Interest	338/69		
4297542	10/27/1981	SHUMWAY	Cited for Related Interest	200/6A		
4301337	11/17/1981	EVENTOFF	Cited for Related Interest	200/5A		
4313113	1/26/1982	THORNBURG	Footnote 28 -- Special Interest	345/159		
4314228	2/2/1982	EVENTOFF	Cited for Related Interest	338/114		
4314227	2/2/1982	EVENTOFF	Cited for Related Interest	338		
4315238	2/9/1982	EVENTOFF	Cited for Related Interest	338		
4348142	9/7/1982	FIGOUR	Cited for Related Interest	414/2		
4349708	9/14/1982	ASHER	Cited for Related Interest	200/6A		
4369663	1/25/1983	VENTURELLO ETAL	Cited for Related Interest	73/862.043		
4369971	1/25/1983	CHANG ETAL	Cited for Related Interest	463/2		
4385841	5/31/1983	KRAMER	Cited for Related Interest	368/29		
4406217	9/27/1983	OOTA	Footnote 42 -- Special Interest	99/280		
4408103	10/4/1983	SMITH	Cited for Related Interest	200/6A		
4414537	11/8/1983	GRIMES	Cited for Related Interest	341/20		
4419653	12/6/1983	WAIGAND	Cited for Related Interest	338/114		
4420808	12/13/1983	DIAMOND ETAL	Cited for Related Interest	701/4		
4469330	9/4/1984	ASHER	Cited for Related Interest	463/38		
4469930	9/4/1984	TAKAHASHI	Cited for Related Interest	219/121.72		
4489302	12/18/1984	EVENTOFF	Cited for Related Interest	338/99		
4490587	12/25/1984	MILLER	Cited for Related Interest	200/5		
4491325	1/1/1985	Bersheim	Footnote 91 -- Special Interest	463/38		
4504059	3/12/1985	Weinrieb	Cited for Related Interest	273/148		
4514600	4/30/1985	LENTZ	Cited for Related Interest	200/5R		
4536746	8/20/1985	GOBELI	Cited for Related Interest	341/20		

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Examiner Initials	US Patent Number	Publication Date	Patentee or Applicant Name	Relevent Information	US Class	
	4536746	8/20/1985	GOBELI	Footnote 26 -- Special Interest	341/20	
	4546347	10/8/1985	KIRSCH	Cited for Related Interest	345/166	
	4552360	11/12/1985	BROMLEY ETAL	Cited for Related Interest	463/38	
	4555960	12/3/1985	KING	Footnote 1 -- Special Interest	74/471XY	
	4573682	3/4/1986	Mayon	Cited for Related Interest	273/148	
	4604509	8/5/1986	CLANCY ETAL	Cited for Related Interest	200/513	
	4604502	8/5/1986	Thomas	Footnote 92 -- Special Interest	200/6A	
	4615252	10/7/1986	YAMAUCHI ETAL	Cited for Related Interest	84/687	
	4630823	12/23/1986	Grant	Cited for Related Interest	273/148	
	4647916	3/3/1987	BOUGHTON	Cited for Related Interest	345/156	
	4667271	5/19/1987	WILSON	Cited for Related Interest	361/725	
	4670743	6/2/1987	ZEMKE	Cited for Related Interest	345/157	
	4673919	6/16/1987	KATAOKA	Cited for Related Interest	341/11	
	4680577	7/14/1987	STRAAYER ETAL	Footnote 67 -- Special Interest	345/160	
	4684089	8/4/1987	LELY	Cited for Related Interest	248/124.1	
	4687200	8/18/1987	SHIRAI	Cited for Related Interest	463/37	
	4694231	9/15/1987	ALVITE	Cited for Related Interest	318/568.11	
	4724292	2/9/1988	ICHIKAWA	Cited for Related Interest	219/708	
	4733214	3/22/1988	ANDRESEN	Cited for Related Interest	219/708	
	4745301	5/17/1988	MICHALCHIK	Cited for Related Interest	307/119	
	4766271	8/23/1988	MITSUHASHI ETAL	Cited for Related Interest	200/512	
	4786895	11/22/1988	CASTANEDA	Cited for Related Interest	345/160	
	4811608	3/14/1989	HILTON	Cited for Related Interest	73/862.043	
	4855704	8/8/1989	BETZ	Cited for Related Interest	336/132	
	4858930	8/22/1989	SATO	Footnote 54 -- Special Interest	463/23	
	4866542	9/12/1989	SHIMADA ETAL	Cited for Related Interest	386/69	
	4866544	9/12/1989	HASHIMOTO	Cited for Related Interest	360/40	
	4879556	11/7/1989	DUIMEL	Footnote 16 -- Special Interest	341/20	
	4910503	3/20/1990	BRODSKY	Cited for Related Interest	345/161	
	4909514	3/20/1990	Tano	Footnote 94 -- Special Interest	273/148	
	4924216	5/8/1990	LEUNG	Footnote 11 -- Special Interest	463/38	
	4933670	6/12/1990	WISLOCKI	Footnote 10 -- Special Interest	345/167	
	4935728	6/19/1990	KLEY	Footnote 5 -- Special Interest	345/161	
	4962448	10/9/1990	DEMAIO ETAL	Cited for Related Interest	700/17	
	4975676	12/4/1990	GREENHALGH	Cited for Related Interest	338/114	
	5038144	8/6/1991	Kaye	Cited for Related Interest	341/176	
	5059958	10/22/1991	JACOBS ETAL	Cited for Related Interest	345/158	
	5065146	11/12/1991	GARRETT	Footnote 13 -- Special Interest	345/161	
	5068498	11/26/1991	ENGEL	Cited for Related Interest	200/6A	
	5103404	4/7/1992	MCINTOSH	Cited for Related Interest	318/568	
	5116051	5/26/1992	MONCRIEF ETAL	Cited for Related Interest	463/36	
	5128671	7/7/1992	THOMAS	Cited for Related Interest	341/20	
	5132658	7/21/1992	DAUENHAUER ETAL	Cited for Related Interest	338/92	
	5139439	8/18/1992	SHIE	Cited for Related Interest	439/359	
	5142931	9/1/1992	MENAHEM	Footnote 7 -- Special Interest	74/471XY	
	5164697	11/17/1992	KRAMER	Footnote 58 -- Special Interest	338/69	
	5168221	12/1/1992	HOUSTON	Cited for Related Interest	324/207	
	5182796	1/26/1993	SHIBAYAMA ETAL	Cited for Related Interest	345/841	
	5183998	2/2/1993	HOFFMAN ETAL	Cited for Related Interest	219/492	
	5184830	2/9/1993	OKADA ETAL	Footnote 51 -- Special Interest	463/29	
	5189355	2/23/1993	LARKINS ETAL	Cited for Related Interest	318/685	
	5196782	3/23/1993	D'ALEO ETAL	Cited for Related Interest	323/320	

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Examiner Initials	US Patent Number	Publication Date	Patentee or Applicant Name	Relevent Information		US Class	
	5200597	4/6/1993	EASTMAN	Cited for Related Interest	235/455		
	5203563	4/20/1993	LOPER	Footnote 64 -- Special Interest	273/148B		
	5207426	5/4/1993	INOUE ET AL	Footnote 20 -- Special Interest	463/36		
	5222400	6/29/1993	HILTON	Footnote 88 -- Special Interest	73/862		
	5231386	7/27/1993	BRANDENBURG ETAL	Footnote 18 -- Special Interest	345/174		
	5237311	8/17/1993	MAILEY ETAL	Cited for Related Interest	345/167		
	5250930	10/5/1993	YOSHIDA ETAL	Footnote 15 -- Special Interest	345/168		
	5252952	10/12/1993	FRANK ETAL	Footnote 3 -- Special Interest	345/157		
	5259626	11/9/1993	HO	Cited for Related Interest	463/37		
	5264768	11/23/1993	GREGORY ETAL	Footnote 32 -- Special Interest	318/561		
	5271290	12/21/1993	FISCHER	Cited for Related Interest	74/471XY		
	D342740	12/28/1993	PARKER	Cited for Related Interest	D14/218		
	5278557	1/11/1994	STOKES ETAL	Cited for Related Interest	341/34		
	5280926	1/25/1994	SOGGE ETAL	Cited for Related Interest	277/641		
	5287089	2/15/1994	PARSONS	Cited for Related Interest	345/156		
	5286024	2/15/1994	WINBLAD	Cited for Related Interest	273/148B		
	5293158	3/8/1994	SOMA	Cited for Related Interest	345/161		
	5294121	3/15/1994	CHIANG	Footnote 52 -- Special Interest	273/148B		
	5298919	3/29/1994	CHANG	Cited for Related Interest	345/163		
	5311779	5/17/1994	TERUO	Cited for Related Interest	73/726		
	5313229	5/17/1994	GILLIGAN ETAL	Cited for Related Interest	345/157		
	5315204	5/24/1994	PARK	Footnote 50 -- Special Interest	310/339		
	5327201	7/5/1994	COLEMAN ETAL	Footnote 70 -- Special Interest	399/342		
	5329276	7/12/1994	HIRABAYASHI	Cited for Related Interest	340/870.31		
	5333057	7/26/1994	MORIKAWA ETAL	Cited for Related Interest	358/296		
	5345807	9/13/1994	BUTTS ETAL	Footnote 73 -- Special Interest	73/1.15		
	5349371	9/20/1994	FONG	Cited for Related Interest	345/166		
	5355352	10/11/1994	KOBAYASHI ETAL	Footnote 37 -- Special Interest	368/281		
	5364108	11/15/1994	ESNOUF	Cited for Related Interest	368/281		
	5365494	11/15/1994	LYNCH	Footnote 39 -- Special Interest	368/10		
	5376913	12/27/1994	PINE ETAL	Cited for Related Interest	338/114		
	5386084	1/31/1995	RISKO	Cited for Related Interest	174/52.3		
	5389757	2/14/1995	SOULIERE	Footnote 57 -- Special Interest	200/345		
	5391083	2/21/1995	ROEBUCK ETAL	Cited for Related Interest	174/52.3		
	D355901	2/28/1995	BRADLEY	Cited for Related Interest	D14/410		
	5394168	2/28/1995	SMITH, III, ETAL	Cited for Related Interest	345/156		
	5396235	3/7/1995	MAESHIMA	Footnote 92 -- Special Interest	341/34		
	5396225	3/7/1995	OKADA ETAL	Footnote 55 -- Special Interest	463/40		
	5399823	3/21/1995	MCCUSKER	Footnote 74 -- Special Interest	200/521		
	5419613	5/30/1995	Wedecking	Cited for Related Interest	297/217		
	5440237	8/8/1995	BROWN ETAL	Footnote 83 -- Special Interest	324/601		
	5452615	9/26/1995	HILTON	Cited for Related Interest	73/862		
	5457478	10/10/1995	FRANK	Cited for Related Interest	345/158		
	5459487	10/17/1995	BOUTON	Cited for Related Interest	463/37		
	5467108	11/14/1995	MIMLITCH	Cited for Related Interest	345/161		
	5487053	1/23/1996	BEISWENGER ETAL	Cited for Related Interest	368/69		
	5499041	3/12/1996	BRANDENBURG ETAL	Footnote 33 -- Special Interest	345/174		
	5508719	4/16/1996	GERVAIS	Cited for Related Interest	345/157		
	5510812	4/23/1996	O'MARA ETAL	Footnote 38 -- Special Interest	345/161		
	5512892	4/30/1996	Corballis	Footnote 93 -- Special Interest	341/22		
	5517211	5/14/1996	KWANG-CHIEN	Cited for Related Interest	345/166		
	5528265	6/18/1996	Harrison	Cited for Related Interest	345/158		

Examiner Signature	Date Considered
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Examiner Initials	US Patent Number	Publication Date	Patentee or Applicant Name	Relevent Information	US Class	
	5530455	6/25/1996	GILLICK ETAL	Cited for Related Interest	345/163	
	5541622	7/30/1996	ENGLE ETAL	Footnote 34 -- Special Interest	345/161	
	5543781	8/6/1996	GANUCHEAU, JR. ETAL	Footnote 68 -- Special Interest	340/7.52	
	5550339	8/27/1996	HAUGH	Cited for Related Interest	200/5A	
	5552799	9/3/1996	HASHIGUCHI	Footnote 53 -- Special Interest	345/3.2	
	5551693	9/3/1996	GOTO ETAL	Cited for Related Interest	463/37	
	5555004	9/10/1996	ONO ETAL	Cited for Related Interest	345/161	
	5559432	9/24/1996	LOGUE	Cited for Related Interest	324/207.17	
	5565891	10/15/1996	ARMSTRONG	Footnote 90 -- Special Interest	345/167	
	5564560	10/15/1996	MINELLI ETAL	Footnote 60 -- Special Interest	200/516	
	5589828	12/31/1996	ARMSTRONG	Footnote 89 -- Special Interest	341/20	
	5591924	1/7/1997	HILTON	Cited for Related Interest	73/862	
	5602569	2/11/1997	KATO	Cited for Related Interest	345/158	
	5606594	2/25/1997	REGISTER ETAL	Cited for Related Interest	455/556.2	
	5607158	3/4/1997	Chan	Cited for Related Interest	273/148B	
	5615083	3/25/1997	Burnett	Cited for Related Interest	361/686	
	5640566	6/17/1997	VICTOR ETAL	Cited for Related Interest	717/113	
	5644113	7/1/1997	DATE ETAL	Cited for Related Interest	200/5R	
	D381982	8/5/1997	ZEITMAN	Cited for Related Interest	D14/162	
	5657051	8/12/1997	LIAO	Cited for Related Interest	345/163	
	5659334	8/19/1997	YANIGER ETAL	Cited for Related Interest	345/156	
	4045650	8/30/1997	NESTOR	Cited for Related Interest	200/556	
	5670955	9/23/1997	THORN ETAL	Footnote 24 -- Special Interest	341/34	
	5670988	9/23/1997	TICKLE	Cited for Related Interest	345/157	
	5669818	9/23/1997	THORNER ETAL	Cited for Related Interest	463/30	
	5673237	9/30/1997	BLANK	Cited for Related Interest	368/10	
	5675329	10/7/1997	BARKER ETAL	Cited for Related Interest	341/22	
	5675309	10/7/1997	DEVOLPI	Cited for Related Interest	338/68	
	5675359	10/7/1997	ANDERSON	Cited for Related Interest	345/161	
	5684759	11/4/1997	HUANG ETAL	Cited for Related Interest	368/10	
	5687080	11/11/1997	HOYT ETAL	Footnote 14 -- Special Interest	700/85	
	5689285	11/18/1997	ASHER	Footnote 30 -- Special Interest	345/161	
	5706027	1/6/1998	HILTON ETAL	Cited for Related Interest	345/156	
	5704612	1/6/1998	KELLY ETAL	Cited for Related Interest	273/402	
	5716274	2/10/1998	GOTO ETAL	Cited for Related Interest	463/37	
	5738352	4/14/1998	OHKUBO ETAL	Cited for Related Interest	273/148B	
	5749577	5/12/1998	COUCH ETAL	Cited for Related Interest	273/148B	
	5764219	6/9/1998	RUTLEDGE ET AL	Footnote 21 -- Special Interest	345/159	
	5767840	6/16/1998	SELKER	Cited for Related Interest	345/161	
	5767839	6/16/1998	ROSENBERG	Cited for Related Interest	345/161	
	5767840	6/16/1998	SELKER	Cited for Related Interest	345/161	
	5774109	6/30/1998	WINKSY ETAL	Cited for Related Interest	345/685	
	5778404	7/7/1998	CAPPS ETAL	Cited for Related Interest	715/531	
	5781807	7/14/1998	GLASSGOLD ETAL	Footnote 79 -- Special Interest	396/71	
	5790102	8/4/1998	NASSIMA	Footnote 96 -- Special Interest	345/163	
	5805138	9/8/1998	BRAWNE ETAL	Cited for Related Interest	345/156	
	5812114	9/22/1998	LOOP	Footnote 35 -- Special Interest	345/157	
	5815139	9/29/1998	YOSHIKAWA	Cited for Related Interest	345/157	
	5828363	10/27/1998	YANIGER ETAL	Cited for Related Interest	345/156	
	5831596	11/3/1998	MARSHALL ETAL	Cited for Related Interest	345/161	
	5835977	11/10/1998	KAMENTSER ETAK	Cited for Related Interest	73/862.05	
	4786764	11/22/1998	Padula et al	Footnote ?? -- Special Interest	178/18	

Examiner Signature	Date Considered
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Examiner Initials	US Patent Number	Publication Date	Patentee or Applicant Name	Relevent Information	US Class	
	5847305	12/8/1998	YOSHIKAWA ETAL	Footnote 45 -- Special Interest	84/634	
	5847639	12/8/1998	YANIGER	Cited for Related Interest	338/99	
	5847694	12/8/1998	REDFORD ETAL	Footnote 31 -- Special Interest	345/158	
	5847698	12/8/1998	REAVY ETAL	Cited for Related Interest	345/173	
	5854624	12/29/1998	GRANT	Cited for Related Interest	345/169	
	5853326	12/29/1998	GOTO ETAL	Cited for Related Interest	463/37	
	5854622	12/29/1998	BRANNON	Cited for Related Interest	345/161	
	5867808	2/2/1999	SELKER ETAL	Cited for Related Interest	702/41	
	5872521	2/16/1999	LOPATUKIN ETAL	Cited for Related Interest	340/7.52	
	5883619	3/16/1999	HO ETAL	Cited for Related Interest	345/163	
	5889236	3/30/1999	GILLESPIE ET AL	Cited for Related Interest	178/18.01	
	5889507	3/30/1999	ENGLE ETAL	Footnote 17 -- Special Interest	345/161	
	5889236	3/30/1999	GILLESPIE ETAL	Cited for Related Interest	187/18.01	
	5895471	4/20/1999	KING ETAL	Cited for Related Interest	707/104.1	
	5898359	4/27/1999	ELLIS	Cited for Related Interest	338/47	
	5898425	4/27/1999	SEKINE	Footnote 19 -- Special Interest	345/168	
	5909207	6/1/1999	HO	Cited for Related Interest	345/156	
	5910798	6/8/1999	KIM	Footnote 27 -- Special Interest	345/163	
	5910882	6/8/1999	BURRELL	Footnote 76 -- Special Interest	361/681	
	5917779	6/29/1999	RALSON ETAL	Cited for Related Interest	368/83	
	5923317	7/13/1999	SAYLER ETAL	Footnote 36 -- Special Interest	345/156	
	5923267	7/13/1999	BEUK ETAL	Cited for Related Interest	340/825	
	5943044	8/24/1999	MARTINELLI ETAL	Footnote 25 -- Special Interest	345/174	
	5948066	9/7/1999	WHALEN ETAL	Footnote 44 -- Special Interest	709/229	
	5952631	9/14/1999	MIYAKI	Cited for Related Interest	200/6A	
	5963196	10/5/1999	NISHIUMI ETAL	Cited for Related Interest	345/161	
	5966117	10/12/1999	SEFFERNICK ETAL	Cited for Related Interest	345/161	
	5974238	10/26/1999	CHASE	Cited for Related Interest	709/248	
	5973668	10/26/1999	WATANABE	Cited for Related Interest	345/157	
	5983004	11/9/1999	SHAW ETAL	Footnote 78 -- Special Interest	709/227	
	5984785	11/16/1999	TAKEDA ETAL	Cited for Related Interest	463/38	
	5991594	11/23/1999	FROEBER ETAL	Cited for Related Interest	434/317	
	5995026	11/30/1999	SELLERS	Footnote 26 -- Special Interest	341/34	
	5995319	11/30/1999	TANIGAWA ETAL	Cited for Related Interest	360/90	
	5999084	12/7/1999	ARMSTRONG	Cited for Related Interest	338/114	
	5999808	12/7/1999	LADUE	Footnote 49 -- Special Interest	455/412.2	
	6001014	12/14/1999	OGATA ETAL	Footnote 66 -- Special Interest	463/37	
	6004210	12/21/1999	SHINOHARA	Cited for Related Interest	463/36	
	6020884	2/1/2000	MACNAUGHTON ETAL	Cited for Related Interest	345/747	
	6027828	2/22/2000	HAHN	Footnote 56 -- Special Interest	429/100	
	6037954	3/14/2000	MCMAHON	Cited for Related Interest	345/169	
	6040821	3/21/2000	FRANZ ETAL	Cited for Related Interest	345/159	
	6049812	4/11/2000	BERTRAM ETAL	Footnote 29 -- Special Interest	715/516	
	6049323	4/11/2000	ROCKWELL ETAL	Cited for Related Interest	345/784	
	6059660	5/9/2000	TAKADA ETAL	Cited for Related Interest	463/38	
	6060701	5/9/2000	MCKEE ETAL	Cited for Related Interest	219/681	
	6064766	5/16/2000	SKLAREW	Cited for Related Interest	382/189	
	6067005	5/23/2000	DEVOLPI	Cited for Related Interest	338/47	
	6067863	5/30/2000	FAVRE ETAL	Cited for Related Interest	73/862.68	
	6072469	6/6/2000	CHEN ETAL	Cited for Related Interest	345/157	
	6073034	6/6/2000	JACOBSEN ETAL	Cited for Related Interest	455/566	
	6102802	8/15/2000	ARMSTRONG	Footnote 117 -- Special Interes	463/37	

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Examiner Initials	US Patent Number	Publication Date	Patentee or Applicant Name	Relevent Information	US Class
	6112014	8/29/2000	KANE	Footnote 40 -- Special Interest	358/1.16
	6118979	9/12/2000	POWELL	Footnote 46 -- Special Interest	340/7.6
	6124845	9/26/2000	TODA ETAL	Cited for Related Interest	345/157
	6135886	10/24/2000	ARMSTRONG	Cited for Related Interest	463/37
	6153843	11/28/2000	DATE ETAL	Cited for Related Interest	200/339
	6157935	12/5/2000	TRAN ETAL	Cited for Related Interest	715/503
	6157381	12/5/2000	BATES ETAL	Cited for Related Interest	345/786
	6178338	1/23/2001	YAMAGISHI ETAL	Cited for Related Interest	455/566
	6177926	1/23/2001	KUNERT	Footnote 71 -- Special Interest	345/173
	6185158	2/6/2001	ITO ETAL	Cited for Related Interest	368/37
	6198473	3/6/2001	ARMSTRONG	Cited for Related Interest	345/163
	6198948	3/6/2001	SUDO ETAL	Footnote 43 -- Special Interest	455/566
	6198472	3/6/2001	LECTION ETAL	Cited for Related Interest	345/161
	6208271	3/27/2001	ARMSTRONG	Cited for Related Interest	341/34
	6222525	4/24/2001	ARMSTRONG	Cited for Related Interest	345/161
	6231444	5/15/2001	GOTO ETAL	Footnote 47 -- Special Interest	463/37
	6239786	5/29/2001	BURRY ETAL	Cited for Related Interest	345/161
	6256011	7/3/2001	CULVER	Footnote 63 -- Special Interest	345/157
	6262406	7/17/2001	MCKEE ETAL	Footnote 72 -- Special Interest	219/681
	6275138	8/14/2001	MAEDA	Cited for Related Interest	338/47
	6285356	9/4/2001	ARMSTRONG	Cited for Related Interest	345/167
	6310606	10/30/2001	ARMSTRONG	Cited for Related Interest	345/161
	6321158	11/20/2001	DELORME ETAL	Footnote 69 -- Special Interest	701/201
	6326948	12/4/2001	KOBACHI ETAL	Footnote 65 -- Special Interest	345/157
	6343991	2/5/2002	ARMSTRONG	Cited for Related Interest	463/37
	6344791	2/5/2002	ARMSTRONG	Cited for Related Interest	338/114
	6347997	2/19/2002	ARMSTRONG	Cited for Related Interest	463/37
	6351205	2/26/2002	ARMSTRONG	Cited for Related Interest	338/114
	6352477	3/5/2002	SOMA ETAL	Cited for Related Interest	463/36
	6400303	6/4/2002	ARMSTRONG	Cited for Related Interest	341/176
	6415707	6/9/2002	ARMSTRONG	Cited for Related Interest	99/280
	6404584	6/11/2002	ARMSTRONG	Cited for Related Interest	360/88
	6422941	7/23/2002	THORNER ETAL	Cited for Related Interest	463/30
	6424336	7/23/2002	ARMSTRONG	Footnote 117 -- Special Interest	345/159
	6456778	9/24/2002	ARMSTRONG	Cited for Related Interest	386/46
	6469691	10/22/2002	ARMSTRONG	Cited for Related Interest	345/159
	6470078	10/22/2002	ARMSTRONG	Cited for Related Interest	379/93.19
	6496449	12/17/2002	ARMSTRONG	Cited for Related Interest	345/159
	6504527	1/7/2003	ARMSTRONG	Cited for Related Interest	345/159
	6518953	2/11/2003	ARMSTRONG	Cited for Related Interest	345/159
	6524187	2/25/2003	KOMATA	Cited for Related Interest	463/37
	6529185	3/4/2003	ARMSTRONG	Cited for Related Interest	345/159
	6532000	3/11/2003	ARMSTRONG	Cited for Related Interest	345/159
	6538638	3/25/2003	ARMSTRONG	Cited for Related Interest	345/159
	6559831	5/6/2003	ARMSTRONG	Cited for Related Interest	345/159
	6563415	5/13/2003	ARMSTRONG	Cited for Related Interest	338/47
	6424333	7/23/2002	TREMBLAY ET AL	Cited for Related Interest	345/156
	6275213	8/14/2001	TREMBLAY ET AL	Cited for Related Interest	345/156
	5349370	9/20/1994	KATAYAMA ET AL	Cited for related Interest	345/159
	5049079	9/17/1991	FURTADO ET AL	Footnote 100 -- Special Interest	434/253
	5687331	11/11/1997	VOLK ET AL	Cited for related Interest	395/327
	5542039	7/30/1996	BRINSON ET AL	Footnote 98 -- Special Interest	345/800

Examiner Signature	Date Considered
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Examiner Initials	US Patent Number	Publication Date	Patentee or Applicant Name	Relevent Information	US Class
	4850591	7/25/1989	CAPCON CO.	Cited for related Interest	273/85
	6217444	4/17/2001	KONAMI CO.	Cited for related Interest	463/3
	6007423	12/28/1999	NAKAMURA	Cited for related Interest	463/6
	5184120	2/2/1993	MOTOROLA, INC.	Cited for related Interest	340/870
	5555894	9/17/1996	MATSUSHITA ELE.	Cited for related Interest	600/595
	5673066	9/30/1997	TODA ET AL	Cited for related Interest	345/157
	5853324	12/29/1998	KAMI ET AL	Footnote 99 -- Special Interest	462/2
	6146278	11/14/2000	KOBAYASHI	Cited for related Interest	463/53
	6031516	2/29/2000	LEIPER	Cited for related Interest	345/629
	6041068	3/21/2000	ROSENGREN ET AL	Footnote 101 -- Special Interest	370/538
	5358259	10/25/1994	BEST	Footnote 106 -- Special Interest	273/434
	6147674	11/14/2000	ROSENBERG ETAL	Cited for related Interest	345/157
	6225976	5/1/2001	YATES ET AL	Cited for related Interest	345/156
	6322448	11/27/2001	KAKU ET AL	Footnote 103 -- Special Interest	463/32
	6414996	7/2/2002	OWEN ET AL	Footnote 105 -- Special Interest	375/240
	6400353	6/4/2002	IKAHARA ET AL	Footnote 104 -- Special Interest	345/157
	4713007	12/15/1987	ALBAN	Footnote 102 -- Special Interest	463/37
	6155926	12/5/2000	MIYAMOTO ET AL	Footnote 109 -- Special Interest	463/32
	6028531	2/22/2000	WANDERLICH	Footnote 110 -- Special Interest	340
	5999168	12/7/1999	ROSENBERG ETAL	Footnote 111 -- Special Interest	345
	5808540	9/15/1998	WHEELER ETAL	Cited for related Interest	338
	5619180	4/8/1997	MASSIMINO ETAL	Cited for related Interest	340
	5367631	11/22/1994	LEVY	Footnote 115 -- Special Interest	395/162
	5392337	2/21/1995	BAALS	Footnote 116 -- Special Interest	379/457
	5640152	6/17/1997	COPPER	Cited for related Interest	340/825
	4323888	4/6/1982	COLE	Footnote 117 -- Special Interest	341/34
	5485171	1/16/1996	COPPER ET AL	Cited for related Interest	345/160
	5714983	2/3/1998	SACKS	Cited for related Interest	345/168
	5258748	11/2/1993	JONES	Cited for related Interest	345/172
	6239790	5/29/2001	MARTINELLI ET AL	Cited for related Interest	345/174
	5841078	11/24/1998	MILLER ET AL	Cited for related Interest	178/
	5648642	7/15/1997	MILLER ET AL	Cited for related Interest	178
	6239389	5/29/2001	ALLEN ET AL	Cited for related Interest	178
	5495077	2/27/1996	MILLER ET AL	Cited for related Interest	178
	5543588	8/6/1996	BISSET ET AL	Cited for related Interest	178
	5861583	1/19/1999	SCHEDIWY ET AL	Cited for related Interest	178
	5880411	3/9/1999	GILLESPIE ET AL	Cited for related Interest	178
	5942733	8/24/1999	ALLEN ET AL	Cited for related Interest	178
	5543591	8/6/1996	GILLESPIE ET AL	Cited for related Interest	178
	6028271	2/22/2000	GILLESPIE ET AL	Cited for related Interest	178
	5488204	1/30/1996	MEAD ET AL	Cited for related Interest	178
	5374787	12/20/1994	MILLER ET AL	Cited for related Interest	178
	5914465	6/22/1999	ALLEN ET AL	Cited for related Interest	178
	5543590	8/6/1996	GILLESPIE ET AL	Cited for related Interest	178
	5043721	8/27/1991	MAY; GREGORY	Cited for related Interest	340
	5675524	10/7/1997	BERNARD; MARC	Cited for related Interest	708

Examiner Signature		Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	Application Number: 09/896,680					
	Filing Date: June 29, 2001					
	First Named Unit: Brad A. Armstrong					
	Group Art Unit: 3713					
	Examiner's Name: Nguyen, Kim					
	Applicant File Number: F29					
<b>EXAMINER INITIALS</b>	<b>NON PATENT LITERATURE DOCUMENTS AND OTHERS REFERENCES</b>	<b>Additional Data in Footnote</b>				
	Mouse Ball-Actuating Device with Force and Tactile Feedback", IBM Disclosure Bulletin, v1 32, No. 9B, Feb. 1990, pp. 230-235	Footnote 2 -- Special Interest				
	Research Disclosures, vol. 283, Nov. 1987 (USA) "Joystick with Tactile Feedback"					
	Development of a General Purpose Hand Controller for Advanced Teleoperation" KV Siva Harwell Laboratory, UK. July 1988	Footnote 12 -- Special Interest				
	The "CyberMan" 3D Controller by Logitech Inc. of Fremont California US in 1993, a two page advertisement flyer is provided herewith, as are detailed photographs.	Footnote 9 -- Special Interest				

Examiner Signature		Date Considered
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EXAMINER INITIALS	NON PATENT LITERATURE DOCUMENTS AND OTHERS REFERENCES	Additional Data in Footnote					
	Kambic "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer In a Laterally Conducting Mode", IBM Technical Disclosure Bulletin, Volume 20, No. 5, October 1977, pp. 1833-1834	Footnote 22 -- Special Interest					
	USB DEVICE CLASS DEFINITION FOR HUMAN DEVICES, OCT, 14, 1998	Cited for related interest					
	Search results titled Questel-Orbit QWEB dated December 1999, pages 1-24 having short descriptions / abstracts thereon are submitted herewith by Applicant for study.	Cited for related interest					
	Namco, 1994, a hand held controller for video games having a button to drive a gear and rotate a rotary potentiometer which creates an analog signal change based on positional change; to be considered prior art to some of Applicant's claims.	Cited for related interest					

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER INITIALS	NON PATENT LITERATURE DOCUMENTS AND OTHERS REFERENCES	Additional Data in Footnote					
	Flightstick Pro" by CH Products, San Marcos, California USA, a joystick which uses a gimbal and rotary potentiometers, the joystick is prior art sold in stores.	Cited for related interest					
	Known prior art are rotary operated potentiometers which have an Off position usually in the far counterclockwise direction of rotation and an audible "click" is provided when rotated in or out of the Off position. Such potentiometers are variable output electrical devices controlled by rotation.	Cited for related interest					

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

### Footnotes – References of Special Interest

Re: Patent Application of Brad A. Armstrong

Serial No.: 09/896,680

Filed: 06/29/2001

Applicant's file No. F29

Correspondence mailing address: Brad A. Armstrong

P.O. 2048

Carson City, NV 89702

Title: CONTROLLER WITH ANALOG PRESSURE SENSOR(S)

Examiner: Nguyen, Kim

GAU: 3713

#### Footnote numbers:

1 Inventor King, US Patent Number 4555960 published on 12/3/1985 was relied upon against applicant's US patent application serial number 07/847619 in the Office Action dated 5/17/1994. In that Office Action on pages 9-14 Examiner A. Hill asserted a 35 USC 102 rejection in sections 5-6 and a 35 USC 103 rejection in sections 7-10.

1 Inventor King, US Patent Number 4555960 published on 12/3/1985 was relied upon against applicant's patent application serial number 07/847619 in the Office Action dated 9/28/1994. In that Office Action on pages 6-11 Examiner A. Hill asserted a 35 USC 103 rejection in sections 7-8.

1 Inventor King, US Patent Number 4555960 published on 12/3/1985 was relied upon against applicant's patent application serial number 07/847619 in the Office Action dated 5/11/1995. In that Office Action on pages 11-17 Examiner A. Hill asserted a 35 USC 103 rejection in sections 10-11.

1 Inventor King, US Patent Number 4555960 published on 12/3/1985 was relied upon against applicant's patent application serial number 07/847619 in the

Office Action dated 8/10/1995. In that Office Action on pages 17-32 Examiner A. Hill asserted a 35 USC 102 rejection in section 9 and a 35 USC 103 rejection in sections 11-17.

2 The IBM Technical Disclosure Bulletin Vol. 32 No. 9B "Mouse Ball-Actuating Device With Force and Tactile Feedback" pages 230-235 published 2/1/1990 was relied upon against applicant's patent application No. 07/847619 in the Office Action dated 5/17/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 7-10 on pages 10-13.

2 The IBM Technical Disclosure Bulletin Vol. 32 No. 9B "Mouse Ball-Actuating Device With Force and Tactile Feedback" pages 230-235 published 2/1/1990 was relied upon against applicant's patent application No. 07/847619 in the Office Action dated 9/28/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 7-8 on pages 6-11.

2 The IBM Technical Disclosure Bulletin Vol. 32 No. 9B "Mouse Ball-Actuating Device With Force and Tactile Feedback" pages 230-235 published 2/1/1990 was relied upon against applicant's patent application No. 07/847619 in the Office Action dated 5/11/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 10-11 on pages 11-17.

2 The IBM Technical Disclosure Bulletin Vol. 32 No. 9B "Mouse Ball-Actuating Device With Force and Tactile Feedback" pages 230-235 published 2/1/1990 was relied against applicant's patent application No. 07/847619 in the Office Action dated 8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 11-15 on pages 20-29.

3 Inventors Frank et al in US Patent 5252952 issued 10/1/1993 was relied upon against applicant's patent application no. 07/847619 in an Office

Action dated 5/17/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 9-10 on pages 12-13.

3 Inventors Frank et al in US Patent 5252952 issued 10/1/1993 was relied upon against applicant's patent application no. 07/847619 in an Office Action dated 9/28/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 7-8 on pages 6-11.

3 Inventors Frank et al in US Patent 5252952 issued 10/1/1993 was relied upon against applicant's patent application no. 07/847619 in an Office Action dated 5/11/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 10-11 on pages 11-17.

3 Inventors Frank et al in US Patent 5252952 issued 10/1/1993 was relied upon against applicant's patent application no. 07/847619 in an Office Action dated 8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 14-17 on pages 24-32.

4 Patent document No. EP0205726 of Nakamura published 12/30/1986 was relied upon against applicant's patent application no. 07/847619 in an Office Action dated 5/17/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 10 on pages 13-14.

5 Inventor Kley, US Patent 4935728 issued 6/1/1990 was relied upon against applicant's patent application No. 07/847619 in an Office Action dated 9/28/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 7-8 on pages 6-11.

5 Inventor Kley, US Patent 4935728 issued 6/1/1990 was relied upon against applicant's patent application No. 07/847619 in an Office Action dated

8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 14-17 on pages 24-32.

6 Inventors Dzholdasbekov et al, patent document GB2240614 published Aug. 7, 1991 was relied upon against applicant's application no. 07/847619 in an Office Action dated 5/11/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 10-11 on pages 11-17.

6 Inventors Dzholdasbekov et al, patent document GB2240614 published Aug. 7, 1991 was relied upon against applicant's application no. 07/847619 in an Office Action dated 08/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 102 rejection in sections 7-8 and a 35 USC 103 rejection in section 1, 13 on pages 20-32.

7 Inventor Menahem, US Patent 5142931 issued 9/1/1992 was relied upon against applicant's patent application 07/847619 in an Office Action dated 8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 14-17 on pages 24-32.

8 Inventor Thomas, Jr., US Patent 5128671 issued 7/7/1992 was relied upon against applicant's application no. 07/847619 in an Office Action dated 8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 16-17 on pages 29-32.

9 The product "Cyberman" is a controller sold to the public in 1993 by Logitech and which was relied upon against applicant's US Patent application no. 08/393459 in an Office Action dated 7/5/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 3 pages 2-4. Also, the resultant Patent from application no. 08/393459 listed the product as "Gyberman" instead of the correct name of Cyberman.

10 Inventor Wislocki, US Patent 4933670 issued 6/12/1990 was relied upon against applicant's patent application no. 08/393459 in an Office Action dated 7/5/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 3 pages 2-4.

10 Inventor Wislocki, US Patent 4933670 issued 6/12/1990 was relied upon against applicant's patent application no. 08/393459 in an Office Action dated 12/11/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 4-6 pages 2-5.

11 Inventor Leung, US Patent 4924216 issued 5/8/1990 was relied upon against application application no. 08/393459 in an Office Action dated 12/11/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 5 page 4.

12 The article "Developement of a General Purpose Hand Controller for Advanced Teleoperation", KV Siva, Harwell Laboratory, UK, July1988 was relied upon against applicant's patent application no. 08/393459 in an Office Action dated 12/11/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 4-6 pages 2-5.

13 Inventor Garrett, US Patent 5065146 issued 11/12/1991 was relied upon against applicant's patent application 08/393459 in an Office Action dated 12/11/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 6 pages 4-5.

14 Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 3/23/1998. In that Office Action Examiner J. Suraci asserted a 35 USC 102 rejection in section 2 and a 35 USC 103 rejection in section 4 pages 1-2.

14 Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 6/26/1998. In that Office Action Examiner J. Suraci asserted a 35 USC 102 rejection in section 4 and a 35 USC 103 rejection in section 6 pages 3-4.

14 Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 9 and a 35 USC 103 rejection in section 14 pages 5-6.

14 Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 3/13/2000. In that Office Action Examiner J. Brier asserted a 35 USC 103 rejection in section 5 page 3.

14 Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 8/31/2000. In that Office Action Examiner J. Brier asserted a 35 USC 103 rejection in sections 12-13 pages 5-6.

15 Inventors Yoshida et al, US Patent 5250930 issued 10/5/1993 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 3/23/1998. In that Office Action Examiner J. Suraci asserted a 35 USC 103 rejection in section 4 page 2.

15 Inventors Yoshida et al, US Patent 5250930 issued 10/5/1993 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 6/26/1998. In that Office Action Examiner J. Suraci asserted a 35 USC 103 rejection in section 6 page 4.

15 Inventors Yoshida et al, US Patent 5250930 issued 10/5/1993 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 103 rejection in section 14 page 6.

15 Inventors Yoshida et al, US Patent 5250930 issued 10/5/1993 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 3/13/2000. In that Office Action Examiner J. Brier asserted a 35 USC 103 rejection in section 5 page 3.

16 Inventor Duimel, US Patent 4879556 issued 11/7/1989 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 10 page 5.

17 Inventors Engle et al, US Patent 5889507 issued 3/30/1999 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 11 page 6.

17 Inventors Engle et al, US Patent 5889507 issued 3/30/1999 was relied upon against applicant's US patent application 10/042,027 in an Office Action dated 12/4/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2-3 pages 2-4.

18 Inventors Brandenburg et al, US Patent 5231386 issued 7/24/1990 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 12 page 6.

18 Inventors Brandenburg et al, US Patent 5231386 issued 7/24/1990 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 8/31/2000. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 7 and a 35 USC rejection in sections 10, 12 pages 4-6.

19 Inventor Sekine, US Patent 5898425 issued 4/27/1999 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 8/31/2000. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 8 and a 35 USC rejection in sections 11, 13 pages 4-6.

19 Inventor Sekine, US Patent 5898425 issued 4/27/1999 was relied upon as a PCT "X" reference (lack of novelty indicated by "X") against applicant's PCT application NO. PCT/US99/28913 in a report dated April 19, 2002 by Examiner J. Brier.

20 Inventors Inoue et al, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No.08/942450 in an Office Action dated 8/18/1999. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2 pages 2-3.

20 Inventors Inoue et al, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 10/164684 in an Office Action dated 2/6/2003. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2 pages 2-3.

20 Inventors Inoue et al, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 09/510572 in an Office Action dated 2/13/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 5 pages 3-4.

20 Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 10/042027 in an Office Action dated 3/14/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 2-4 pages 2-4.

20 Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 10/042027 in an Office Action dated 12/4/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 2-3 pages 2-4.

20 Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 09/892430 in an Office Action dated 11/7/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 4 page 3.

20 Inventors Inoue et al , US Patent 5207426 issued 5/4/1993 was relied upon as a PCT "Y" reference (used in obviousness) against Applicant's PCT application No. PCT/US99/28654 in an Office Action dated Sept. 13, 2001 by Examiner J. Paradiso.

20 Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon as a PCT "y" reference (used in obviousness) against Applicant's PCT application No. PCT/US99/28654 in an Office Action dated March 15, 2000 by Examiner L. Libberecht.

21 Inventors Rutledge et al, US Patent 5764219 issued 6/9/1998 was relied upon against applicant's US patent application 08/942450 in an Office Action dated 8/18/1999. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2 pages 2- 3.

21 Inventors Rutledge et al, US Patent 5764219 issued 6/9/1998 was relied upon against applicant's US patent application 10/164684 in an Office Action dated 2/6/2003. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2 pages 2-3.

21 Inventors Rutledge et al, US Patent 5764219 issued 6/9/1998 was relied upon against applicant's US patent application 09/892430 in an Office Action dated 11/7/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 4 page 3.

21 Inventors Rutledge et al, US Patent 5764219 issued 6/9/1998 was relied upon as a PCT "Y" reference (used in obviousness) against applicant's PCT application PCT/US99/28654 in an Office Action dated Sept. 13, 2001 by Examiner J. Paradiso.

22 The article "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode" by Kambic , IBM Technical Disclosure Vol. 20, No. 5, pages 1833-1834, (October 1977) was relied upon against applicant's US patent application 09/106825 in an Office Action dated 4/26/1999. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 3 and a 35 USC 103 rejection in section 5 pages 2-3.

22 The article "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode" by Kambic , IBM Technical Disclosure Vol. 20, No. 5, pages 1833-1834, (October 1977) was relied upon against applicant's US patent application 09/106825 in an Office Action dated 6/24/1999. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 2 and a 35 USC 103 rejection in section 4 page 2.

22 The article "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode" by Kambic , IBM Technical Disclosure Vol. 20, No. 5, pages 1833-1834, (October 1977) was relied upon against applicant's US patent application 09/455821 in an Office Action dated 4/19/2000. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 5 and a 35 USC 103 rejection in section 7 pages 3-4.

22 The article "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode" by Kambic , IBM Technical Disclosure Vol. 20, No. 5, pages 1833-1834, (October 1977) was relied upon against applicant's US patent application 09/710557 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 3 page 3.

23 Inventor Fujita, US Patent 3611068 issued 10/5/1971 was relied upon against applicant's US patent application 09/106825 in an Office Action dated 4/26/1999. In that Office Action Examiner K. Easthom asserted a 35 USC 103 rejection in section 5 pages 2-3.

23 Inventor Fujita, US Patent 3611068 issued 10/5/1971 was relied upon against applicant's US patent application 09/106825 in an Office Action dated 6/24/1999. In that Office Action Examiner K. Easthom asserted a 35 USC 103 rejection in section 4 page 2.

24 Inventors Thorne et al, US Patent 5670955 issued 9/23/1997 was relied upon against applicant's US patent application 09/148806 in an Office Action dated 5/24/2000. In that Office Action Examiner T. Edwards Jr. asserted a 35 USC 103 rejection in sections 2-4 pages 2-12.

25 Inventors Martinelli et al, US Patent 5943044 issued 8/24/1999 was relied upon against applicant's US patent application 09/148806 in an Office Action dated 5/24/2000. In that Office Action Examiner T. Edwards Jr. asserted a 35 USC 103 rejection in sections 3-4 pages 8-12.

26 Inventor Sellers, US Patent 5995026 issued 11/30/1999 was relied upon against applicant's US patent application 09/148806 in an Office Action dated 5/24/2000. In that Office Action Examiner T. Edwards Jr. asserted a 35 USC 103 rejection in sections 4 pages 11-12.

27 Inventor Kim, US Patent 5910798 issued 6/8/1999 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 6/20/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 2-6 pages 2-3.

27 Inventor Kim, US Patent 5910798 issued 6/8/1999 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 8/30/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 4-9 pages 2-4.

28 Inventor Thornburg, US Patent 4313113 issued 1/19/1982 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 6/20/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 2-6 pages 2-3.

28 Inventor Thornburg, US Patent 4313113 issued 1/19/1982 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 8/30/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 4-9 pages 2-4.

28 Inventor Thornburg, US Patent 4313113 issued 1/19/1982 was relied upon against applicant's US patent application 09/563109 in an Office Action dated 10/3/2002. In that Office Action Examiner H. Dang asserted a 35 USC 103 rejection in sections 6-7 pages 2-8.

28 Inventor Thornburg, US Patent 4313113 issued 1/19/1982 was relied upon as a PCT "X" reference (lack of novelty indicated by "X") and also as a PCT "Y" reference (used in obviousness) against applicant's PCT application NO. PCT/US00/12840 in a report dated October 13, 2000 by Examiner K. Wieder..

29 Inventors Bertram et al, US Patent 6049812 issued 4/11/2000 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 6/20/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 6-7 page 3.

29 Inventors Bertram et al, US Patent 6049812 issued 4/11/2000 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 8/30/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 8-9 page 4.

30 Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon against applicant's US Patent application 09/253263 in an Office Action dated 10/4/2000. In that Office Action Examiner T. Mengisteab asserted a 35 USC 103 rejection in sections 4-7 pages 2-6.

30 Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon against applicant's US Patent application 09/510572 in an Office Action dated 2/13/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 5 pages 3-4.

30 Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon against applicant's US Patent application 09/941310 in an Office Action dated 4/8/2003. In that Office Action Examiner A. Jankus asserted a 35 USC 102 rejection in section 4 pages 2-3.

30 Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon as a PCT "Y" reference (used in obviousness) against applicant's PCT application NO. PCT/US00/33253 in a report dated April 11, 2001 by Examiner J. Paradiso.

30 Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon as a PCT "Y" reference (used in obviousness) against applicant's PCT application NO. PCT/US00/33397 in a report dated April 19, 2001 by Examiner J. Paradiso

31 Inventor Redford, US Patent 5847694 issued 12/8/1998 was relied upon against applicant's US Patent application 09/253263 in an Office Action dated 10/4/2000. In that Office Action Examiner T. Mengisteab asserted a 35 USC 103 rejection in section 5 page 4.

32 Inventors Gregory et al, US Patent 5264768 issued 11/23/1993 was relied upon against applicant's US Patent application 09/253263 in an Office Action dated 10/4/2000. In that Office Action Examiner T. Mengisteab asserted a 35 USC 103 rejection in section 6 pages 4-5.

33 Inventors Brandenburg et al, US Patent 5499041 issued 3/12/1996 was relied upon against applicant's US Patent application 09/253263 in an Office Action dated 10/4/2000. In that Office Action Examiner T. Mengisteab asserted a 35 USC 103 rejection in section 7 pages 5-6.

34 Inventors Engle et al, US Patent 5541622 issued 7/30/1996 was relied upon against applicant's US Patent application 09/253263 in an Office Action

dated 3/27/2001. In that Office Action Examiner A. Jankus asserted a 35 USC 103 rejection in section 2 pages 2-4.

35 Inventor Loop, US Patent 5812114 issued 9/22/1998 was relied upon against applicant's US Patent application 09/566678 in an Office Action wherein Examiner C. Nguyen asserted a 35 USC 102 rejection in section 2 and a 35 USC 103 rejection in section 4 pages 2-4.

36 Inventors Sayler et al, US Patent 5923317 issued 7/13/1999 was relied upon against applicant's US Patent application 09/566678 in an Office Action wherein Examiner C. Nguyen asserted a 35 USC 103 rejection in section 4 pages 3-4.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 8-16 pages 4-11.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/702176 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699926 in an Office Action dated 3/2/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 6-7 pages 3-4.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699926 in an Office

Action dated 3/12/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 5-7 pages 3-5.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699799 in an Office Action dated 10/3/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 7-8 pages 4-6.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699853 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699854 in an Office

Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699655 in an Office Action dated 5/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699826 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/702091 in an Office Action dated 2/28/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699816 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/733435 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-7.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/733468 in an Office

Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-6.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/733586 in an Office Action dated 9/21/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 14-16 pages 4-7.

37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/733437 in an Office Action dated 12/18/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-13 pages 5-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 8-16 pages 4-11.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/702176 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699926 in an Office Action dated 3/2/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 6-7 pages 3-4.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699926 in an Office Action

dated 3/12/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 7 page 5.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699817 in an Office Action dated 11/30/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699799 in an Office Action dated 10/3/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 7-8 pages 4-6.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699853 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4, 6 pages 3-5.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699854 in an Office Action

dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699655 in an Office Action dated 5/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699826 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/702091 in an Office Action dated 2/28/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699816 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733435 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733468 in an Office Action

dated 4/24/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-6.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733469 in an Office Action dated 5/23/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733586 in an Office Action dated 9/21/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 14-16 pages 4-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733437 in an Office Action dated 12/18/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-13 pages 5-7.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon as a PCT "Y" reference (used in obviousness) against applicant's PCT application No. PCT/US00/33253 in an Office Action dated April 11, 2001 by Examiner J. Paradiso.

38 Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon as a PCT "Y" reference (used in obviousness) against applicant's PCT application No. PCT/US00/33397 in an Office Action dated April 19, 2001 by Examiner J. Paradiso.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated

3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 9 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/702176 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699926 in an Office Action dated 3/2/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 7 page 4.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699817 in an Office Action dated 11/30/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699799 in an Office Action dated 10/3/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 8 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699853 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated

3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699854 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699655 in an Office Action dated 5/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699826 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/702091 in an Office Action dated 2/28/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699816 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 11-12 pages 6-7.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733435 in an Office Action dated

4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 6-7.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733468 in an Office Action dated 4/24/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 5-6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733469 in an Office Action dated 5/23/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 10 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733586 in an Office Action dated 9/21/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 15 page 6.

39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733437 in an Office Action dated 12/18/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

40 Inventor Kane, US Patent 6112014 issued 8/29/2000 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 10 page 7.

41 Inventor Mason, US Patent 4158759 issued 6/19/1979 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated

3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 pages 7-8.

41 Inventor Mason, US Patent 4158759 issued 6/19/1979 was relied upon against applicant's US Patent application 09/733435 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 7.

42 Inventor Oota, US Patent 4406217 issued 9/27/1983 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 8.

42 Inventor Oota, US Patent 4406217 issued 9/27/1983 was relied upon against applicant's US Patent application 09/699816 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 7.

42 Inventor Oota, US Patent 4406217 issued 9/27/1983 was relied upon against applicant's US Patent application 09/733468 in an Office Action dated 4/24/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.

43 Inventors Sudo et al, US Patent 6198948 issued 3/6/2001 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 13 pages 8-9.

43 Inventors Sudo et al, US Patent 6198948 issued 3/6/2001 was relied upon against applicant's US Patent application 09/600655 in an Office Action dated

5/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 7.

44 Inventors Whalen et al, US Patent 5948066 issued 9/7/1999 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 14 page 9.

44 Inventors Whalen et al, US Patent 5948066 issued 9/7/1999 was relied upon against applicant's US Patent application 09/699854 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 7.

45 Inventors Yoshikawa et al, US Patent 5847305 issued 12/8/1998 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 15 page 10.

45 Inventors Yoshikawa et al, US Patent 5847305 issued 12/8/1998 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 7.

45 Inventors Yoshikawa et al, US Patent 5847305 issued 12/8/1998 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 3-6 pages 2-5.

46 Inventor Powell, US Patent 6118979 issued 9/12/2000 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated

3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 16 pages 10-11.

46 Inventor Powell, US Patent 6118979 issued 9/12/2000 was relied upon against applicant's US Patent application 09/702176 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 7.

47 Inventors Goto et al, US Patent 6231444 issued 5/15/2001 was relied upon against applicant's US Patent application 09/551513 in an Office Action dated 9/25/2001. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection on page 4.

47 Inventors Goto et al, US Patent 6231444 issued 5/15/2001 was relied upon against applicant's US Patent application 09/627564 in an Office Action dated 9/26/2001. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection on page 4.

47 Inventors Goto et al, US Patent 6231444 issued 5/15/2001 was relied upon against applicant's US Patent application 09/721848 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 5 on pages 4-5.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/702176 in an Office Action dated 3/13/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4-5 on pages 3-4.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's

US patent application no. 09/699926 in an Office Action dated 3/12/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 5-7 on pages 3-5.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/699853 in an Office Action dated 1/17/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4-5, 7 on pages 3-5.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 3-6 on pages 2-5.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection and a 35 USC 103 rejection on pages 2-10.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection and a 35 USC 103 rejection on pages 3-6.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 8/27/2003. In that

Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 4-6.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/955838 in an Office Action dated 5/3/2002. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 5 and a 35 USC 103 rejection in section 7 on pages 4-5.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/955838 in an Office Action dated 7/12/2002. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 6 on page 4.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 10/042027 in an Office Action dated 3/14/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 3-4 on pages 2-4.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 10/042027 in an Office Action dated 12/4/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 2-3 on pages 2-4.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/896680 in an Office Action dated 7/31/2003. In that

Office Action Examiner A. Enatsky asserted a 35 USC 102 rejection and a 35 USC 103 rejection on pages 2-5.

48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 10/329142 in an Office Action dated 6/12/2003. In that Office Action Examiner S. Jones asserted a 35 USC 103 rejection in section 10 on pages 5-9.

49 Inventor LaDue, US Patent 5999808 issued 12/7/1999 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection on pages 3-4.

50 Inventor Park, US Patent 5315204 issued 5/24/1994 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 5-7.

50 Inventor Park, US Patent 5315204 issued 5/24/1994 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 3.

50 Inventor Park, US Patent 5315204 issued 5/24/1994 was relied upon against applicant's PCT application no. PCT/US99/28914 in an Office Action dated April 26, 2000. In that Action Park was relied upon as a PCT "X" reference (lack of novelty indicated by "X") and also as a PCT "Y" reference (used in obviousness) by Examiner M. Zambuto.

51 Inventor Okada, US Patent 5184830 issued 2/9/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 7.

51 Inventor Okada, US Patent 5184830 issued 2/9/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 3.

51 Inventor Okada, US Patent 5184830 issued 2/9/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 8/27/2003. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 2-6.

52 Inventor Chiang, US Patent 5294121 issued 3/15/1994 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 7-8.

52 Inventor Chiang, US Patent 5294121 issued 3/15/1994 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 4.

53 Inventor Hasiguchi, US Patent 5552799 issued 9/3/1996 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 8-9.

53 Inventor Hasiguchi, US Patent 5552799 issued 9/3/1996 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 4.

54 Inventor Sato, US Patent 4858930 issued 8/22/1989 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 8-9.

54 Inventor Sato, US Patent 4858930 issued 8/22/1989 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 4.

55 Inventors Okada et al, US Patent 5396225 issued 3/7/1995 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 5-6.

56 Inventor Hahn, US Patent 6027828 issued 2/22/2000 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 8/27/2003. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 2-6.

57 Inventor Souliere, US Patent 5389757 issued 2/14/1995 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 8/27/2003. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 6.

58 Inventor Kramer, US Patent 5164697 issued 11/17/1992 was relied upon against applicant's US patent application no. 09/455821 in an Office Action dated 4/19/2000. In that Office Action Examiner K. Easthom asserted a 35 USC 103 rejection in section 7 on pages 3-4.

58 Inventor Kramer, US Patent 5164697 issued 11/17/1992 was relied upon against applicant's US patent application no. 09/455821 in an Office Action dated 5/3/2002. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 5 and also a 35 USC 103 rejection in section 7 on pages 4-5.

59 Inventors Murata et al, GB patent document No. GB 2113920 published 8/10/1983 was relied upon against applicant's US patent application no. 09/455821 in an Office Action dated 4/19/2000. In that Office Action Examiner K. Easthom asserted a 35 USC 103 rejection in section 7 on pages 3-4.

60 Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 10/042027 in an Office Action dated 3/14/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 4 on page 4.

60 Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 10/042027 in an Office Action dated 12/4/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 3 on page 4.

60 Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 09/702176 in an Office Action dated 3/13/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 5 on page 4.

60 Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 09/699926 in an Office Action dated 3/12/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 6-7 on pages 4-5.

60 Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 5-6 on pages 4-5.

61 Japanese unexamined patent document No. JP 7-302159 published 11/14/1995 naming Inventors Terajima et al was relied upon against applicant's US patent application no. 09/896680 in an Office Action dated 7/31/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 103 rejection on pages 4-5.

61 Japanese unexamined patent document No. JP 7-302159 published 11/14/1995 naming Inventors Terajima et al was relied upon against applicant's US patent application no. 10/329142 in an Office Action dated 6/12/2003. In that Office Action Examiner S. Jones asserted a 35 USC 103 rejection in section 10 on pages 5-9.

62 Inventor Chandler, US Patent 4246452 issued 1/20/1981 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 12/5/2001. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-4 on pages 2-4.

62 Inventor Chandler, US Patent 4246452 issued 1/20/1981 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 5/202002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-4 on pages 2-4.

63 Inventor Culver, US Patent 6256011 issued 7/3/2001 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 12/5/2001. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-4 on pages 2-4.

63 Inventor Culver, US Patent 6256011 issued 7/3/2001 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-4 on pages 2-4.

64 Inventor Loper, US Patent 5203563 issued 4/20/1993 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 12/5/2001. In that Office Action Examiner D. Chow asserted a 35 USC 102 rejection in section 6 and a 35 USC 103 in section 7 on pages 4-5.

64 Inventor Loper, US Patent 5203563 issued 4/20/1993 was relied upon against applicant's US patent application no. 09/710557 in an Office Action dated 12/4/2001. In that Office Action Examiner D. Chow asserted a 35 USC 102 rejection in section 4 and a 35 USC 103 in sections 2,5 on pages 2-4.

65 Inventors Kobachi et al, US Patent 6326948 issued 12/4/2001 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 5 on pages 4-5.

66 Inventors Ogata et al, US Patent 6001014 issued 12/14/1999 was relied upon against applicant's US patent application no. 09/710557 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-3 on pages 2-3.

67 Inventors Straayer et al, US Patent 4680577 issued 7/14/1987 was relied upon against applicant's US patent application no. 09/941310 in an Office Action dated 4/8/2003. In that Office Action Examiner A. Jankus asserted a 35 USC 102 rejection in section 3 on pages 2-3.

68 Inventors Ganuchea et al, US Patent 5543781 issued 8/6/1996 was relied upon against applicant's US patent application no. 09/702176 in an Office Action dated 3/13/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4-5 on pages 3-4.

69 Inventors DeLorme et al, US Patent 6321158 issued 11/20/2001 was relied upon against applicant's US patent application no. 09/702176 in an Office Action dated 3/13/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 4 on page 3.

69 Inventors DeLorme et al, US Patent 6321158 issued 11/20/2001 was relied upon against applicant's US patent application no. 09/699853 in an Office Action dated 1/17/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4-5, 7 on pages 3-5.

70 Inventors Coleman et al, US Patent 5327201 issued 7/5/1994 was relied upon against applicant's US patent application no. 09/699817 in an Office Action dated 11/30/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 on pages 4-6.

71 Inventor Kunert, US Patent 6177926 issued 1/23/2001 was relied upon against applicant's US patent application no. 09/699853 in an Office Action dated 11/17/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 5 on page 4.

72 Inventors McKee et al, US Patent 6262406 issued 7/17/2001 was relied upon against applicant's US patent application no. 09/702239 in an Office Action dated 12/1/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 102 rejection in section 10 on page 4.

73 Inventors Butts et al, US Patent 5345807 issued 9/13/1994 was relied upon against applicant's US patent application no. 09/702239 in an Office Action dated 7/30/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 102 rejection and also a 35 USC 103 rejection on pages 2-3.

73 Inventors Butts et al, US Patent 5345807 issued 9/13/1994 was relied upon against applicant's US patent application no. 09/733468 in an Office Action dated 8/26/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 102 rejection and also a 35 USC 103 rejection on pages 3-4.

74 Inventor McCusker, US Patent 5399823 issued 3/21/1995 was relied upon against applicant's US patent application no. 09/733468 in an Office Action dated 8/26/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 103 rejection on pages 3-4.

75 Inventors Kondur et al, US Patent 3993884 issued 11/23/1976 was relied upon against applicant's US patent application no. 09/733468 in an Office Action dated 8/26/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 103 rejection on pages 3-4.

76 Inventor Burrell, US Patent 5910882 issued 6/8/1999 was relied upon against applicant's US patent application no. 09/733469 in an Office Action dated 5/23/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 on page 7.

77 Inventors Takamiya et al, US Patent 4133012 issued 1/2/1979 was relied upon against applicant's US patent application no. 09/733586 in an Office Action dated 9/21/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 16 on page 7.

78 Inventors Shaw et al, US Patent 5983004 issued 11/9/1999 was relied upon against applicant's US patent application no. 09/733437 in an Office Action dated 12/18/2001. In that Office Examiner Action J. Paradiso asserted a 35 USC 103 rejection in section 12 on page 7.

79 Inventors Glassgold et al, US Patent 5781807 issued 7/14/1998 was relied upon against applicant's US application no. 09/733437 in an Office Action dated 12/18/2001. In that Office Examiner J. Paradiso asserted a 35 USC 103 rejection in section 13 on page 7.

80 Inventor Mitchell, US Patent 3806471 issued 4/23/1974 was relied upon against applicant's PCT application no. PCT/US99/28654 in an Office Action dated March 15, 2000. In that Office Examiner L. Libberecht asserted that the US Patent 3806471 reference was a PCT "Y" type reference (used in obviousness).

81 Assignee Nintendo, patent document EP0470615 published was relied upon against applicant's PCT application no. PCT/US99/28654 in an Office Action dated March 15, 2000. In that Office Examiner L. Libberecht asserted that the EP0470615 reference was a PCT "Y" type reference (used in obviousness).

82 Assignee Thomson Brandt, patent document DE3542890 published June 19, 1987 was relied upon against applicant's PCT application no. PCT/US99/28654 in an Office Action dated March 15, 2000. In that Office

Examiner L. Libberecht asserted that the DE3542890 reference was a PCT "Y" type reference (used in obviousness).

83 Inventor Brown, US Patent 5440237 issued 8/8/1995 was relied upon against applicant's PCT application no. PCT/US99/28914 in an Office Action dated April 26, 2000. In that Office Examiner M. Zambuto asserted that the 5440237 reference was a PCT "Y" type reference (used in obviousness).

84 Assignee Texas Instruments, patent document EP0579448 published January 19, 1994 was relied upon against applicant's PCT application no. PCT/US99/28914 in an Office Action dated April 26, 2000. In that Office Examiner M. Zambuto asserted that the EP0579448 reference was a PCT "Y" type reference (used in obviousness).

85 Inventor Hilton, US Patent 5222400 issued June 29, 1993 was relied upon against applicant's PCT application no. PCT/US99/28913 in an Office Action dated May 26, 2000. In that Office Examiner M. . Baldan asserted that the 5222400 reference was a PCT "Y" type reference (used in obviousness).

86 Inventor Gobeli, US Patent 4536746 issued August 20, 1985 was relied upon against applicant's PCT application no. PCT/US99/28913 in an Office Action dated May 26, 2000. In that Office Examiner M. . Baldan asserted that the 4536746 reference was a PCT "Y" type reference (used in obviousness).

87 Inventor Armstrong, US Patent 5589828 issued Dec. 31, 1996 was relied upon against applicant's PCT application no. PCT/US99/28913 in an Office Action dated April 19, 2002. In that Office Action Examiner J. Brier asserted that the 5589828 reference was a PCT "X" type (lack of novelty indicated by "X") and also a PCT "Y" type reference (used in obviousness).

88 Inventor Armstrong, US Patent 5565891 issued Oct. 15, 1996 was relied upon against applicant's PCT application no. PCT/US99/28913 in an Office Action dated April 19, 2002. In that Office Action Examiner J. Brier asserted that the 5589828 reference was a PCT "X" type reference (lack of novelty indicated by "X").

89 Assignee Synaptics, patent document WO9718508 published May 22, 1997 was relied upon against applicant's PCT application no. PCT/US99/28956 in an Office Action dated April 27, 2000. In that Office Action Examiner P. Pham asserted that the WO9718508 reference was a PCT "X" type (lack of novelty indicated by "X").

90 Inventors Maeshima et al, US Patent 5396235 issued March 7, 1995 was relied upon against applicant's PCT application no. PCT/US00/12840 in an Office Action dated Oct. 13, 2000. In that Office Action Examiner K. Wieder asserted that the 5396235 reference was a PCT "Y" type reference (used in obviousness).

91 Inventor Bersheim, US Patent 4491325 issued 1/1/1985 was relied upon against applicant's US patent application no. 08/707478 in an Office Action dated 5/30/1997. In that Office Action Examiner A. Wong asserted a 35 USC 102 rejection in section 3 and also a 35 USC 103 rejection in sections 6-8 on pages 2-5.

92 Inventor Thomas, US Patent 4604502 issued 8/5/1986 was relied upon against applicant's US patent application no. 08/707478 in an Office Action dated 5/30/1997. In that Office Action Examiner A. Wong asserted a 35 USC 103 rejection in section 7 on pages 4-5.

93 Inventor Corballis, US Patent 5512892 issued 4/30/1996 was relied upon against applicant's US patent application no. 08/707478 in an Office Action dated

5/30/1997. In that Office Action Examiner A. Wong asserted a 35 USC 103 rejection in section 6 on page 4.

94 Inventor Tano, US Patent 4909514 issued 3/20/1990 was relied upon against applicant's US patent application no. 08/707478 in an Office Action dated 5/30/1997. In that Office Action Examiner A. Wong asserted a 35 USC 102 rejection in section 4 and also a 35 USC 103 rejection in section 7 on pages 3-5.

95. Inventor Adan et al, US Patent Publication 2002/0036660 published Mar. 28, 2002 was relied upon against applicant's US patent application no. 09/754477 in an Office Action dated 09/25/2003. In that Office Action Examiner K. Nguyen asserted a 35 USC 102 rejection in section 7 and also a 35 USC 103 rejection in section 9 on pages 4-6.

96. Inventor Nassimi, US Patent 5,790,102 issued Aug. 4, 1998 was relied upon against applicant's US patent application no. 09/754477 in an Office Action dated 09/25/2003. In that Office Action Examiner K. Nguyen asserted a 35 USC 102 rejection in section 5 and also a 35 USC 103 rejection in section 9 on pages 4-6.

97. Inventor Poulsom of German Patent DE4013227 published 05/29/1991 is of interest and therefore Applicant is mentioning Poulsom. The Poulsom figures 2 and 3 joy stick 3 is a vertically structured element. Poulsom includes a motor and offset weight for providing active tactile feedback to the user.

98. Disclosure US Patent 5542039 of Brinson et al was relied upon by the Examiner in US Patent Application No. 09/758,032 of a third party in a somewhat related application, in Office Action Date Mailed 10/29/2003 (Office Action enclosed for Examiner's convenience)

99. Disclosure US Patent 5853324 of Kami et al was relied upon by the Examiner in somewhat related US Patent Application No. 09/757,806 of a third party in Office Action Date Mailed 11/04/2002. (Office Action enclosed for Examiner's convenience)

100. Disclosure US Patent 5049079 of Furtado et al was relied upon by the Examiner in a somewhat related application US Patent Application No. 09/758,106 of a third party, Office Action Date Mailed 10/02/2002 (Office Action enclosed for the Examiner's convenience).

101. Disclosure US Patent 6041068 of Rosengren et al was relied upon in somewhat related US Patent application 09/758,044 by a third party, Office Action Date Mailed 01/29/2003. (Office Action enclosed for the Examiner convenience)

102. Disclosure US Patent 4713007 of Alban was relied upon by the Examiner in somewhat related US Patent Application No. 09/758,106 of a third party. Mario Party of the Mario Brothers game series was also relied upon by the Examiner. The Office Action Date Mailed 10/02/2002. (A copy of the Office Action is enclosed for the Examiner's convenience)

103. Disclosure US Patent 6322448 of Kaku et al was relied upon by the Examiner in somewhat related application US Patent Application No. 09/757,815 of a third party in Office Action Date Mailed 02/27/2003. (Copy of the Office Action is enclosed for the Examiner's convenience).

104. Disclosure US Patent 6400353 of Ikehara et al was relied upon by the Examiner in US Patent Application No. 09/757,815 of a third party in Office Action Date Mailed 02/27/2003. (Copy of the Office Action is enclosed for the Examiner's convenience).

105. Disclosure US Patent 6414996 of Owen et al was relied upon by the Examiner in US Patent Application No. 09/757,815 of a third party in Office Action Date Mailed 02/27/2003. (Copy of the Office Action is enclosed for the Examiner's convenience).
106. Disclosure US Patent 5358259 of Best was relied upon by the Examiner in somewhat related US Patent Application No. 09/757,813 of a third party in Office Action Date Mailed 04/04/2003 (Copy of the Office Action is enclosed for the Examiner's convenience).
107. Disclosure US Patent Publication No. US 2001/0040585 of Hartford was relied upon by the Examiner in US Patent Application No. 09/758,032 of a third party in a somewhat related application Office Action Date Mailed 10/29/2003 (Office Action enclosed herein for the Examiner's convenience).
108. Disclosure US Patent Publication No. US 2002/0122027 of Kim was relied upon by the Examiner in US Patent Application No. 09/758,032 of a third party in a somewhat related application Office Action Date Mailed 10/29/2003 (Office Action enclosed herein for the Examiner's convenience).
109. Disclosure US Patent 6,155,926 of Miyamoto et al was relied upon by the Examiner in US Patent Application No. 09/757,811 of a third party in a somewhat related application, Office Action Date Mailed 07/16/2002 (Office Action enclosed for Examiner's convenience).
110. Disclosure US Patent 6,028,531 of Wanderlich et al was relied upon by the Examiner in US Patent Application No. 09/757,812 of a third party in a somewhat related application, Office Action Date Mailed: 01/02/2003 (Office Action enclosed for Examiner's convenience).

111. Disclosure US Patent 5,999,168 of Rosenberg et al was relied upon by the Examiner in US Patent Application No. 09/757,812 of a third party in a somewhat related application, Office Action Date Mailed: 08/01/2002 (Office Action enclosed for Examiner's convenience).

112. Disclosure JP 07-051467 of Mitsunori et al was relied upon by the Examiner in US Patent Application No. 09/757,812 of a third party in a somewhat related application, Office Action Date Mailed: 01/02/2003. (Office Action enclosed for Examiner's convenience)

113. Disclosure JP-B-H1-40545 was cited by a Third Party Applicant in the "BACKGROUND OF THE INVENTION" of the specification in U.S. Patent Application No. 09/757,812. Regarding the JP-B-H1-40545 disclosure the Third Party stated "For example, a pressure-sensitive type controller was disclosed in the publication of examined Japanese utility model application No. JP-B-H1-40545, wherein pressure-sensitive output is provided as an input to a VCO (variable control oscillator) and the output of the VCO is used for repeated fire in a game."

114. Disclosure US 2002/0054023, a published patent application, was relied upon in Applicant's US Patent Application 09/754,477, a somewhat related application. The Office Action Date Mailed 4/21/2004 is enclosed for Examiner's convenience.

115. Disclosure US Patent 5,367,631 was relied upon in Applicant's US Patent Application 09/754,477, a somewhat related application. The Office Action Date Mailed 4/21/2004 is enclosed for Examiner's convenience.

116. Disclosure US Patent 5,392,337 was relied upon by the Examiner in US Patent Application 09/757,807 in a third party somewhat related application, Office Action Date Mailed 10/03/2003. US Patent 5,999,084 of Inventor Armstrong was also relied upon in the same Office Action. The Office Action Date Mailed 10/03/2003 is enclosed for Examiner's convenience.

117. Disclosure US Patent 6,102,802 of current Inventor Brad A. Armstrong was relied upon in a 35 USC 102 rejection by the Examiner of US Patent Application 09/758,031, a third party somewhat related application, Office Action Date Mailed 9/20/2002. US Patent 4,323,888 of Cole was also relied upon in the same Office Action. US Patent 6,102,802 was again relied upon in Application 09/758,031 in the Office Action of 03/18/2003. US Patent 6,424,336 of current Inventor Brad A. Armstrong was also relied upon in the 03/18/2003 Office Action of Application 09/758,031. The Office Action Date Mailed 03/18/2003 is enclosed for Examiner's convenience.